

IN THE CLAIMS

Please amend claims 1, 6, 13, 14, 15, 19, 21, 24, 25, 28, and 31, and cancel claim 5, as follows:

1. (Currently Amended) In a mobile station, a method of facilitating the determination of Global Positioning System (GPS) location information without disrupting voice communications of a voice call involving the mobile station comprising the acts of:

causing GPS navigational-type data to be received through a wireless transceiver of the mobile station and stored in memory of the mobile station prior to voice communications of a voice call involving the mobile station;

~~receiving, through a user interface of the mobile station, a voice call request at the mobile station for a voice call through a wireless communication network by an end user;~~
~~after in response to~~ receiving the voice call request:

deriving GPS assistance data based on the stored GPS navigational-type data;

tuning the wireless transceiver to a GPS frequency to receive signals from a GPS system through the wireless transceiver;

causing a GPS fix to be performed with signals from a GPS system through the wireless transceiver using the GPS assistance data to thereby obtain GPS measurement data;

after the GPS fix is performed, causing the voice call for the voice call request to be established and maintained for the mobile station through ~~the a~~ wireless communication network ~~in response to the voice call request with the wireless transceiver;~~ and

causing the GPS measurement data to be transmitted to a location server in the wireless communication network for calculating the location of the mobile station.

2. (Original) The method of claim 1, wherein the voice call comprises a 911 emergency call.

3. (Original) The method of claim 1, wherein the act of causing the GPS navigational-type data to be received and stored in memory of the mobile station comprises the further acts of regularly causing the GPS navigational-type data to be received and stored in the memory during one or more time periods that the mobile station would have otherwise been in an idle mode of operation.

4. (Original) The method of claim 1, wherein the act of causing the GPS navigational-type data to be received comprises the further act of causing the GPS navigational-type data to be received from the location server.

5. (Canceled)

6. (Currently Amended) The method of claim 1, further comprising: identifying a trigger signal indicative of the voice call request at the mobile station; and

wherein the act of identifying the trigger signal includes at least one of the following: identifying a detection of the mobile station being taken out of a holster, identifying a selection of a phone application of the mobile station, identifying a selection of one or more digits of a telephone number for the voice call, identifying a selection of entry of the telephone number for the voice call, and receiving the trigger signal from a personal computer (PC) or laptop; and

~~wherein the act of causing the GPS fix to be performed is in response to the act of identifying the trigger signal.~~

7. (Original) The method of claim 1, further comprising: identifying a phone number of the voice call; and

wherein the act of causing the GPS fix to be performed is contingent on the phone number of the voice call.

8. (Original) The method of claim 1, wherein the GPS navigational-type data comprises GPS ephemeris data and/or GPS almanac data.

9. (Original) The method of claim 1, wherein the GPS assistance data comprises at least one of: GPS satellite PseudoRandom Noise (PRN) code identifying data, Doppler frequency data, time delay window data, and bit contents of the GPS navigational data.

10. (Original) The method of claim 1, wherein the GPS measurement data comprises GPS pseudorange data.

11. (Original) The method of claim 1, wherein the location server includes a Position Determination Entity (PDE).

12. (Original) The method of claim 1, further comprising:
receiving the location of the mobile station from the location server through the wireless communication network.

13. (Currently Amended) The method of claim 1, further comprising:
refraining from causing ~~the a~~ GPS fix to be performed during the voice communications of the voice call.

14. (Currently Amended) The method of claim 1, wherein ~~at least a portion of the same wireless receiver is utilized for both acts of performing the GPS fix and causing the voice call to be established and maintained the wireless communication network comprises a CDMA network and the wireless transceiver comprises a CDMA transceiver.~~

15. (Currently Amended) A mobile station, comprising:

- a user interface;
- a wireless receiver and transmitter;
- one or more processors coupled to the wireless receiver and transmitter;
- memory coupled to the one or more processors;
- the one or more processors being operative to facilitate the determination of Global Positioning System (GPS) location information of the mobile station by:

- causing GPS navigational-type data to be received through the wireless receiver and stored in the memory prior to voice communications of a voice call involving the mobile station;

- receiving, through the user interface, a voice call request for the voice call ~~through a wireless communication network by an end user;~~

- after in response to receiving the voice call request:

- deriving GPS assistance data based on the GPS navigational-type data;

- tuning the wireless receiver to a GPS frequency to receive signals from a GPS system through the wireless receiver;

- causing, with use of the wireless receiver, a GPS fix to be performed with ~~a the signals from the~~ GPS system using the GPS assistance data to thereby obtain GPS measurement data based on signals from the GPS system;

- after the GPS fix is performed: causing, with use of the wireless receiver ~~and transmitter~~, the voice call ~~for the voice call request~~ to be established and maintained for the mobile station through the wireless communication network in response to the voice call request; and

- causing, with use of the wireless transmitter, the GPS measurement data to be transmitted to a location server in the wireless communication network for calculating the location of the mobile station.

16. (Original) The mobile station of claim 15, wherein the voice call comprises a 911 emergency call.

17. (Original) The mobile station of claim 15, wherein the causing of the GPS navigational-type data to be received and stored in the memory is performed on a regular basis during one or more time periods that the mobile station would have otherwise been in an idle mode of operation.

18. (Original) The mobile station of claim 15, wherein the causing of the GPS navigational-type data to be received comprises causing the GPS navigational-type data to be received from the location server through the wireless communication network.

19. (Currently Amended) The mobile station of claim 15, further comprising: identifying a trigger signal indicative of the voice call request at the mobile station; and

wherein the act of identifying the trigger signal includes at least one of the following: identifying a detection of the mobile station being taken out of the holster, identifying a selection of a phone application of the mobile station, identifying a selection of one or more digits of a telephone number for the voice call, identifying a selection of entry of the telephone number for the voice call, and receiving the trigger signal from a personal computer (PC) or laptop; and

~~wherein the act of performing the GPS fix is in response to the act of identifying the trigger signal.~~

20. (Original) The mobile station of claim 15, wherein the one or more processors are further operative to:

identify a phone number of the voice call; and

wherein the act of performing the GPS fix is contingent on the phone number of the voice call.

21. (Currently Amended) In a mobile station, a method of facilitating the determination of Global Positioning System (GPS) location information without disrupting voice communications of a voice call involving the mobile station, the method comprising the acts of:

identifying, through a user interface of the mobile station, a trigger signal indicative of a request to terminate a voice call which is maintained for the mobile station over a wireless communication network using a wireless transceiver;

in response to identifying the trigger signal:

tuning the wireless transceiver to a GPS frequency to receive signals from a GPS system through the wireless transceiver;

causing a GPS fix to be performed with a the signals from the GPS system using GPS assistance data to thereby obtain GPS measurement data;

after the GPS fix, causing the GPS measurement data to be transmitted through the wireless transceiver to a location server in the wireless communication network for calculating the location of the mobile station; and

causing the voice call to be terminated.

22. (Original) The method of claim 21, wherein the voice call comprises a 911 emergency call.

23. (Original) The method of claim 21, further comprising:
causing the GPS assistance data to be received in response to identifying the trigger signal.

24. (Currently Amended) The method of claim 21, further comprising:

refraining from causing ~~the a~~ GPS fix to be performed during the voice communications of the voice call.

25. (Currently Amended) The method of claim 21, wherein ~~at least a portion of the same wireless receiver is utilized for performing the GPS fix and maintaining the voice call~~ the wireless transceiver comprises a CDMA transceiver.

26. (Original) The method of claim 21, further comprising:
identifying a phone number of the voice call; and
wherein the acts of causing a GPS fix and causing the GPS measurement data to be transmitted before ending the voice call is contingent on the phone number for the voice call.

27. (Original) The method of claim 21, wherein the trigger signal is based on an actuation of an END key.

28. (Currently Amended) A mobile station, comprising:
a user interface;
a wireless receiver and transmitter;
one or more processors coupled to the wireless receiver and transmitter;
memory coupled to the one or more processors;
the one or more processors being operative to facilitating the determination of Global Positioning System (GPS) location information for the mobile station without disrupting voice communications of a voice call involving the mobile station by:
identifying, through the user interface, a trigger signal indicative of a request to terminate the voice call which is maintained for the mobile station over a wireless communication network using the wireless receiver and transmitter;
in response to identifying the trigger signal:

tuning the wireless receiver to a GPS frequency to receive signals from a GPS system through the wireless receiver;

causing a GPS fix to be performed based on signals of a with the signals from the GPS system using GPS assistance data, to thereby obtain GPS measurement data;

after the GPS fix, causing the GPS measurement data to be transmitted through the wireless transceiver to a location server in the wireless communication network for calculating the location of the mobile station; and

causing the voice call to be terminated.

29. (Original) The mobile station of claim 28, wherein the voice call comprises a 911 emergency call.

30. (Original) The mobile station of claim 28, wherein the one or more processors are further operative for:

causing the GPS assistance data to be received in response to identifying the trigger signal.

31. (Currently Amended) The mobile station of claim 28, wherein the one or more processors are further operative for:

refraining from causing the a GPS fix to be performed during the voice communications of the voice call.

32. (Original) The mobile station of claim 28, wherein at least a portion of the same wireless receiver is utilized for performing the GPS fix and maintaining the voice call.

33. (Original) The mobile station of claim 28, wherein the one or more processors are further operative for:

identifying a phone number of the voice call; and

wherein the acts of causing the GPS fix and causing the GPS measurement data to be transmitted before ending the voice call is contingent upon the phone number for the voice call.

34. (Original) The mobile station of claim 28, wherein the trigger signal is based on an actuation of an END key at the user interface.